BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).

Estimated Cost : Rs. 55.00 Lakhs

Job Code: 014-23-000010

Head of Account : P3726 Zonal Public Works

Name of Agency: M/s. S.S Road Developers, Prop: Sri S.S Mani, No. 2/2, 1st Cross, BSA Road, Fezer Town, Bangalore 560005.

Work Order: BBMP/EE/BTP/WO/156/2022-23 Dated: 10-03-2023.

Date of Recording: 12-04-2023

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	New Drain						
	10th Cross 6th Block HMT Layout N/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.00	1.00	1.00	5.00	
		1	15.00	1.00	1.00	15.00	
		1	4.60	1.00	1.00	4.60	
	10th Cross 6th Block HMT Layout S/S	1	15.00	1.00	1.00	15.00	
		1	6.00	1.00	1.00	6.00	
		1	13.30	1.00	1.00	13.30	
		1	15.00	1.00	1.00	15.00	
		1	4.20	1.00	1.00	4.20	
	7th Main 6th Block HMT Layout W/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	7.10	1.00	1.00	7.10	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.50	1.00	1.00	5.50	
		1	15.00	1.00	1.00	15.00	

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AEE (VRP) SF

No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		1	15.00	1.00	1.00	15.00	
		1	6.10	1.00	1.00	6.10	
	7th Main 6th Block HMT Layout E/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	2.60	1.00	1.00	2.60	
	Narasipura 2nd Phase						
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	8.60	1.20	1.20	12.38	
	Culverts						
	HMT Layout 7th Main Road	1	7.50	1.80	1.20	16.20	
		1	8.00	1.80	1.20	17.28	
		1	7.80	1.80	1.20	16.85	
	10th Cross Road	1	7.50	1.80	1.20	16.20	
		1	7.30	1.80	1.20	15.77	
	5th A Cross	1	6.60	1.80	1.20	14.26	
	5th B Cross	1	7.20	1.80	1.20	15.55	
	Total					**705.09**	Cum

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Date of Recording:	27.04.2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	10th Cross 6th Block HMT Layout N/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.00	1.00	0.15	0.75	
		1	15.00	1.00	0.15	2.25	
		1	4.60	1.00	0.15	0.69	
	10th Cross 6th Block HMT Layout S/S	1	15.00	1.00	0.15	2.25	
		1	6.00	1.00	0.15	0.90	
		1	13.30	1.00	0.15	2.00	
		1	15.00	1.00	0.15	2.25	
		1	4.20	1.00	0.15	0.63	
	7th Main 6th Block HMT Layout W/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	7.10	1.00	0.15	1.07	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.50	1.00	0.15	0.83	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	6.10	1.00	0.15	0.92	
	7th Main 6th Block HMT Layout E/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	2.60	1.00	0.15	0.39	
	Narasipura 2nd Phase						
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	

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AEE (VRP) SE

No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	8.60	1.20	0.15	1.55	
	Culverts						
	HMT Layout 7th Main Road	1	7.50	1.80	0.15	2.03	
		1	8.00	1.80	0.15	2.16	
		1	7.80	1.80	0.15	2.11	
	10th Cross Road	1	7.50	1.80	0.15	2.03	
		1	7.30	1.80	0.15	1.97	
	5th A Cross	1	6.60	1.80	0.15	1.78	
	5th B Cross	1	7.20	1.80	0.15	1.94	
	Total					**98.87**	Cum

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Date of Recording:	11-05-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	10th Cross 6th Block HMT Layout N/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.00	1.00	0.15	0.75	
		1	15.00	1.00	0.15	2.25	
		1	4.60	1.00	0.15	0.69	
	10th Cross 6th Block HMT Layout S/S	1	15.00	1.00	0.15	2.25	
		1	6.00	1.00	0.15	0.90	
		1	13.30	1.00	0.15	2.00	
		1	15.00	1.00	0.15	2.25	
		1	4.20	1.00	0.15	0.63	
	7th Main 6th Block HMT Layout W/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	7.10	1.00	0.15	1.07	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.50	1.00	0.15	0.83	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	6.10	1.00	0.15	0.92	
	7th Main 6th Block HMT Layout E/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	2.60	1.00	0.15	0.39	
	Narasipura 2nd Phase						

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No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	8.60	1.20	0.15	1.55	
	Side Wall						
	10th Cross 6th Block HMT Layout N/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.59	2.66	
		2	5.00	0.15	0.61	0.92	
		2	15.00	0.15	0.62	2.79	
		2	4.60	0.15	0.60	0.83	
	10th Cross 6th Block HMT Layout S/S	2	15.00	0.15	0.60	2.70	
		2	6.00	0.15	0.62	1.12	
		2	13.30	0.15	0.61	2.43	
		2	15.00	0.15	0.60	2.70	
		2	4.20	0.15	0.62	0.78	
	7th Main 6th Block HMT Layout W/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.61	2.75	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	7.10	0.15	0.59	1.26	
		2	15.00	0.15	0.62	2.79	
		2	15.00	0.15	0.60	2.70	
		2	5.50	0.15	0.61	1.01	
		2	15.00	0.15	0.61	2.75	
		2	15.00	0.15	0.60	2.70	
		2	6.10	0.15	0.58	1.06	
	7th Main 6th Block HMT Layout E/S	2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.61	2.75	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.62	2.79	
		2	15.00	0.15	0.61	2.75	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	2.60	0.15	0.60	0.47	
	Narasipura 2nd Phase						
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	

AEE (VRP) SD

No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	8.60	0.15	0.90	2.32	
	Total					**193.08**	Cum

Assistant Engineer
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Vidyaranyapura Sub Division

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B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Date of Recording:	11-05-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	10th Cross 6th Block HMT Layout N/S						
	10 mm dia	501	2.10	1052.10	0.62	652.30	
	8 mm dia	18	50.00	900.00	0.39	351.00	
	Total					**1003.30**	
	10 mm dia	197	2.10	413.70	0.62	256.49	
	8 mm dia	16	19.60	313.60	0.39	122.30	
	Total					**378.80**	
	10th Cross 6th Block HMT Layout S/S						
	10 mm dia	211	2.10	443.10	0.62	274.72	
	8 mm dia	16	21.00	336.00	0.39	131.04	
	Total					**405.76**	
	10 mm dia	134	2.10	281.40	0.62	174.47	
	8 mm dia	16	13.30	212.80	0.39	82.99	
	Total					**257.46**	
	10 mm dia	193	2.10	405.30	0.62	251.29	
	8 mm dia	16	19.20	307.20	0.39	119.81	
	Total					**371.09**	
	7th Main 6th Block HMT L/O W/S						
	10 mm dia	672	2.10	1411.20	0.62	874.94	
	8 mm dia	16	67.10	1073.60	0.39	418.70	
	10 mm dia	356	2.10	747.60	0.62	463.51	
	8 mm dia	16	35.50	568.00	0.39	221.52	
	Total					**1978.68**	
	10 mm dia	368	2.10	772.80	0.62	479.14	
	8 mm dia	18	36.10	649.80	0.39	253.42	
	Total					**732.56**	
	7th Main 6th Block HMT L/O E/S						
	10 mm dia	1679	2.10	3525.90	0.62	2186.06	
	8 mm dia	16	167.60	2681.60	0.39	1045.82	
	Total					**3231.88**	
	Narasipura 2nd Phase						
	10 mm dia	1139	3.00	3417.00	0.62	2118.54	
	8 mm dia	25	113.60	2840.00	0.39	1107.60	
	Total					**3226.14**	
	RCC Drain Total					**11585.68**	Kgs
		Total Qty =				**11.59**	Tonne
		Qty Ltd to Tender Qty =				**11.58**	Tonne

Assistant Engineer
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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Date of Recording:	30-05-2023					
	EIRL						
E1	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)						
	New Culvert						
	1st Course						
	HMT Layout 7th Main Road	2	7.50	0.60	0.45	4.05	
		2	8.00	0.60	0.45	4.32	
		2	7.80	0.60	0.45	4.21	
	10th Cross Road	2	7.50	0.60	0.45	4.05	
		2	7.30	0.60	0.45	3.94	
	1st Course						
	HMT Layout 7th Main Road	2	7.50	0.45	0.45	3.04	
		2	8.00	0.45	0.45	3.24	
		2	7.80	0.45	0.45	3.16	
	10th Cross Road	2	7.50	0.45	0.45	3.04	
		2	7.30	0.45	0.45	2.96	
	5th A Cross	2	6.60	0.45	0.50	2.97	
	5th B Cross	2	7.20	0.45	0.45	2.91	
	Total					**41.88**	Cum

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Date of Recording:	30-05-2023					
E2	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.						
	Pointing						
	HMT Layout 7th Main Road	2	7.50		0.90	13.50	
		2	8.00		0.90	14.40	
		2	7.80		0.90	14.04	
	10th Cross Road	2	7.50		0.90	13.50	
		2	7.30		0.90	13.14	
	5th A Cross	2	6.60		0.90	11.88	
	5th B Cross	2	7.20		0.90	12.96	
	Total					**93.42**	Sqm

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